## IN THE CLAIMS:

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1. (Currently Amended) A method for producing a monolayer of molecules on a surface, the method comprising:

loading a stamp with seed molecules;

transferring seed molecules from the stamp to the surface, wherein the transferring comprises transferring a fraction of the seed molecules loaded on the stamp to the surface and wherein the transferring comprises adsorbing the seed molecules to the stamp and adsorbing the seed molecules to the surface, the adsorption of the seed molecules to the stamp being stronger than the adsorption of the seed molecules to the surface; and

self-completing amplification of amplifying the seed molecules via an amplifying reaction to produce the monolayer.

- 2. (Canceled)
- 15 3. (Canceled)
  - 4. (Original) A method as claimed in claim 1, wherein the amplifying comprises linear amplification of the seed molecules.
- 20 5. (Original) A method as claimed in claim 1, wherein the amplifying comprises exponential amplification of the seed molecules.
  - 6. (Original) A method as claimed in claim 1, wherein the amplifying comprises directional amplification of the seed molecules.
  - 7. (Original) A method as claimed in claim 6, wherein the seed molecules are directionally

Attorney Docket No.: CH920020037US1

Confirmation No. 8613

amplified to form conductive structures.

8. (Currently Amended) A method as claimed in claim 6, comprising electroless plating of

the directionally amplified seed molecules with a metal.

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9. (Original) A method as claimed in claim 6, wherein the directional amplification is

controlled by the geometry of the seed molecule.

10. (Original) A method as claimed in claim 6, wherein the directional amplification is

controlled by application of an external force.

11. (Original) A method as claimed in claim 10, wherein the external force comprises an

electrical force.

15 12. (Original) A method as claimed in claim 10, wherein the external force comprises a

magnetic force.

13. (Original) A method as claimed in claim 10, wherein the external force comprises a

hydrodynamic force.

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14. (Original) A method as claimed in claim 1, wherein the amplifying comprises a

polymerase chain reaction.

15. (Original) A method as claimed in claim 14, wherein the polymerase chain reaction

comprises binding at least one primer to the surface.

3

Attorney Docket No.: CH920020037US1

Confirmation No. 8613

16. (Original) A method as claimed in claim 15, wherein the polymerase chain reaction

comprises supplying a primer in solution.

17. (Original) A method as claimed in claim 1, wherein the amplifying comprises an in vitro

translation system to produce a monolayer of protein.

18. (Canceled)

19. (Canceled)

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20. (Original) A method as claimed in claim 1, wherein the monolayer protects the surface

from etchants.

21. (Previously Presented) A method as claimed in claim 1, wherein the monolayer

15 comprises DNA.

22. (Previously Presented) A method as claimed in claim 1, comprising repeating the

transferring and amplifying on plural surfaces before reloading the stamp with seed molecules.

20 23. (Withdrawn)

4